

ABSTRACT OF THE DISCLOSURE

An image data processing apparatus includes a first device for monitoring a level of a first digital signal representative of an original picture in a prescribed region having a predetermined number of pixels, and deciding whether or not the monitored level changes discontinuously at a pixel of interest in the prescribed region. First data representative of a linear interpolation coefficient are generated in response to a conversion magnification. Second data representative of a non-linear-interpolation coefficient are generated in response to the conversion magnification. The first data are selected when the monitored level does not change discontinuously at the pixel of interest. The second data are selected when the monitored level changes discontinuously at the pixel of interest. The first digital signal is subjected to an interpolation-based filtering process responsive to the selected data to generate a second digital signal representative of a conversion-result picture.